AUTHOR INDEX

Volume 74 • 1997

Abe, K. *See* Chang, M.
Abe, M. *See* Asano, S.
Abiko, Y. *See* Hara, A.
Akimitsu, T. *See* Hanaya, R.
Amano, T. *See* Hanaya, R.
Andoh, M. *See* Sakurai, K.
Andoh, T., Tohda, C. and Kuraishi, Y.
Single whole-cell PCR 121
Aoyama, M. *See* Sakurai, K.
Arakawa, J. *See* Hara, A.
Arita, K. *See* Hanaya, R.
Asano, S., Matsuda, Toshio, Yoshikawa, T., Somboonthum, P., Tasaki, H., Abe, M. and Baba, A.
Oral MKC-242 acts on central 5-HT_{1A} receptors 69

Baba, A. *See* Asano, S.
—— *See* Matsuda, Toshio

Chang, M., Saito, H. and Abe, K.
Cimetidine inhibits LTP 281

Fujimoto, R. *See* Saitoh, N.
Fujimoto, S. *See* Tsushima, H.
Fujino, K. *See* Yasuda, N.
Furuhama, K. *See* Hatanaka, S.
Futagami, K. *See* Sueyasu, M.
Futamura, Y.
Amiodarone affects alveolar macrophages 21

Giacobini, E.
Alzheimer Therapy 225
Giacobini, E. *See* Summers, K.L.
Goto, M. *See* Kamada, H.

Hanaya, R., Sasa, M., Ishihara, K., Akimitsu, T., Iida, K., Amano, T., Serikawa, T., Arita, K. and Kurisu, K.
Antiepileptic effects of 20-OH ecdysone 331
Hara, A., Arakawa, J., Hashizume, H. and Abiko, Y.
Palmitoyl-L-carnitine and Na^+ channel 147
Hara, T. *See* Sueyasu, M.
Hara, Y. *See* Hiroi, T.
Hashizume, H. *See* Hara, A.
Hata, F. *See* Saitoh, N.
Hatanaka, S., Niijima, A. and Furuhama, K.
Effects of ecabapide on gastric afferents 105
Hattori, K. *See* Hiroi, T.
Hayakawa, T. *See* Hisatomi, M.
Hayashi, A. *See* Kamada, H.
Hidaka, H. *See* Hisatomi, M.
Higaki, M. *See* Yamamoto, Hiroko
Hiroi, T., Maruyama, K., Hattori, K., Ohnuki, T., Nagatomo, T., Watanabe, K., Yamamoto, Takaaki and Hara, Y.
Effect of SM-10906 on [^{3}H]iloprost binding sites 37
Hiroto, M. *See* Sakurai, K.
Hisatomi, M., Hayakawa, T., Hidaka, H. and Niki, I.
Insulin release and tyrosine kinase 203
Honda, H., Ishihara, H., Takei, M. and Kogo, H.
Vasorelaxation in female rats 113
Hori, M. *See* Tajimi, M.
Hori, Y., Hoshino, J., Yamazaki, C., Sekiguchi, T., Miyauchi, S., Mizuno, S. and Horie, K.
Effect of PC-SOD on DSS colitis 99
Horie, K. *See* Hori, Y.
Horio, S. and Moritoki, H.
Role of cellular Na^+ in desensitization 291
Hoshino, J. *See* Hori, Y.
Hsieh, M.-T. *See* Peng, W.-H.

Iida, K. *See* Hanaya, R.
Ikeda, H. *See* Suzuki, Masami
Ikeda, Y., Nishiyama, N., Saito, H. and Katsuki, H.
GABA-induced calcium rise 165
Imai, S. *See* Yoshida, Y.
Inada, Y. *See* Sakurai, K.
Inami, M., Kawamura, I., Naoe, Y., Tsujimoto, S., Mizota, T., Manda, T. and Shimomura, K.
Effects of FK143 on BPH in dogs 187
Ishihara, H. *See* Honda, H.
Ishihara, K. *See* Hanaya, R.
Ishii, K. *See* Nakahara, T.
Ishii, T. *See* Saitoh, N.
Ito, Hiroyuki *See* Nagakura, Y.
—— *See* Yamano, M.
Ito, K. *See* Iwamoto, N.
Itoh, F. *See* Nishiyama, M.
Itoh, Hiromichi *See* Kamada, H.
Iwamoto, N., Ito, K., Kakuchi, J. and Yoshioka, T.
NO quenching by an oral adsorbent 213

Kakuchi, J. *See* Iwamoto, N.
Kamada, H., Goto, M., Matsuura, S., Takaoka, Y. and Nagai, H.
Collagen-induced arthritis in DA rats 313
Kamada, H., Itoh, Hiromichi, Shibata, H., Koshio, T., Hayashi, A. and Nakagami, K.
Inhibition of B cell function by mizoribine 323
Karaki, H. *See* Tajimi, M.
Karasawa, A. *See* Suzuki, Mayumi
Kasahara, N. *See* Nanri, M.
Kataoka, Y. *See* Sueyasu, M.
Katsuki, H. *See* Ikeda, Y.
Kawamura, I. *See* Inami, M.
Kawasaki-Yatsugi, S., Yatsugi, S., Koshiya, K. and Shimizu-Sasamata, M.
AMPA antagonist YM90K protects CA1 253
Kem, W.R. *See* Summers, K.L.
Kimura, I., Tsuneki, H., Okabe, M. and Ogasawara, M.
PDGF blocks G_0/G_1 transition of EC 303
Kishibayashi, N. *See* Suzuki, Mayumi
Kiso, T. *See* Nagakura, Y.
Kitamura, Y., Kohno, Y., Nakazawa, M. and Nomura, Y.
Talipexole and MPTP-induced DA reduction 51
Kodera, Y. *See* Sakurai, K.
Kogo, H. *See* Honda, H.
Kohno, Y. *See* Kitamura, Y.
Komasu, C. *See* Sueyasu, M.
Kondo, K. *See* Yasuda, N.
Koshio, T. *See* Kamada, H.
Koshiya, K. *See* Kawasaki-Yatsugi, S.
Kubo, T. *See* Taguchi, K.
Kuraishi, Y. *See* Andoh, T.

Kuraishi, Y. *See* Tohda, C.
Kurisu, K. *See* Hanaya, R.

Lee, B.H. and Shin, H.S.
NO and renin angiotensin system in RHR 83

Manda, T. *See* Inami, M.
Maruyama, K. *See* Hiroi, T.
Matsuda, Tomohiro *See* Tsushima, H.
Matsuda, Toshio *See* Asano, S.
Matsuda, Toshio, Takuma, K. and Baba, A.
Roles of the Na^+-Ca^{2+} exchanger 1
Matsushima, A. *See* Sakurai, K.
Matsuura, S. *See* Kamada, H.
Miyake, H. *See* Nanri, M.
Miyata, K. *See* Nagakura, Y.
—— *See* Yamano, M.
Miyauchi, S. *See* Hori, Y.
Mizota, T. *See* Inami, M.
Mizuno, S. *See* Hori, Y.
Mori, M. *See* Tsushima, H.
Moritoki, H. *See* Horio, S.
Murakami, T. *See* Ueno, M.
Murakami, Y. *See* Yokotani, K.

Nagai, H. *See* Kamada, H.
Nagakura, Y., Ito, Hiroyuki, Kiso, T., Naitoh, Y. and Miyata, K.
Selective 5-HT_4 agonist and gut transit 209
Nagatomo, T. *See* Hiroi, T.
Naitoh, Y. *See* Nagakura, Y.
Nakagami, K. *See* Kamada, H.
Nakahara, T., Ishii, K., Tanaka, Y. and Nakayama, K.
Flow-dependent NO formation 275
Nakamura, M. *See* Sonoki, H.
Nakayama, K. *See* Nakahara, T.
Nakazawa, M. *See* Kitamura, Y.
Nambu, F. *See* Yasuda, N.
Nanri, M., Kasahara, N., Yamamoto, J., Miyake, H.
and Watanabe, H.
Cytoprotective effect of GTS-21 285
Naoe, Y. *See* Inami, M.
Niijima, A. *See* Hatanaka, S.
Niki, I. *See* Hisatomi, M.
Nishimura, H. *See* Sakurai, K.
Nishio, H. *See* Saitoh, N.
Nishiyama, M., Itoh, F. and Ujiie, A.
Dalteparin effects on bone metabolism 59
Nishiyama, N. *See* Ikeda, Y.
Nomura, C. *See* Suzuki, Masami
Nomura, Y. *See* Kitamura, Y.

Odaka, H. *See* Suzuki, Masami
Ogasawara, M. *See* Kimura, I.
Ohnuki, T. *See* Hiroi, T.
Oishi, R. *See* Sueyasu, M.
Okabe, M. *See* Kimura, I.
Okuma, Y. *See* Yokotani, K.
Osumi, Y. *See* Yokotani, K.
Ozaki, H. *See* Tajimi, M.

Peng, W.-H., Hsieh, M.-T. and Wu, C.-R.
Berberine on scopolamine-induced amnesia 261

Saito, H. *See* Chang, M.
—— *See* Ikeda, Y.
Saitoh, N., Fujimoto, R., Ishii, T., Nishio, H., Takeuchi, T.
and Hata, F.
Autoinhibition and PKC in ACh release 155
Sakurai, K., Andoh, M., Yamada, M., Kodera, Y., Nishimura, H.,
Hiroto, M., Matsushima, A., Aoyama, M., Yamamoto, Hisao
and Inada, Y.
Suppression of ischemic edema by Mn-HA 117
Sasa, M. *See* Hanaya, R.
Satoh, H. *See* Yamamoto, Hiroko
Sekiguchi, T. *See* Hori, Y.
Serikawa, T. *See* Hanaya, R.
Shibata, H. *See* Kamada, H.
Shimada, H. *See* Sugino, H.
Shimizu-Sasamata, M. *See* Kawasaki-Yatsugi, S.
Shimomura, K. *See* Inami, M.
—— *See* Yamamoto, Hiroko
Shin, H.S. *See* Lee, B.H.
Shiraji, T. *See* Yasuda, N.
Somboonthum, P. *See* Asano, S.
Sonoki, H., Nakamura, M. and Takeshita, A.
Nipradilol reduces LV remodeling 171
Sueyasu, M., Komasu, C., Hara, T., Futagami, K., Kataoka, Y.
and Oishi, R.
Contrast media-induced histamine release 217
Sugino, H. and Shimada, H.
Uricosuric effects of drugs in rats 29
Sugita, T. *See* Ueno, M.
Summers, K.L., Kem, W.R. and Giacobini, E.
Microdialysis: Nicotinic agonist actions 139
Suzuki, Masami, Nomura, C., Odaka, H. and Ikeda, H.
Pioglitazone and fructose-induced hypertension 297
Suzuki, Mayumi, Kishibayashi, N., Yokoyama, T.
and Karasawa, A.
Peristalsis and acetylcholine 91

Taguchi, K., Ueda, M. and Kubo, T.
cAMP and cGMP on Ca^{2+} channel 179
Tajimi, M., Hori, M., Ozaki, H. and Karaki, H.
Phorbol ester on tracheal smooth muscle 195
Takakura, S. *See* Yamamoto, Hiroko
Takaoka, Y. *See* Kamada, H.
Takata, I. *See* Ueno, M.
Takei, M. *See* Honda, H.
Takeshita, A. *See* Sonoki, H.
Takeuchi, T. *See* Saitoh, N.
Takuma, K. *See* Matsuda, Toshio
Tanaka, Y. *See* Nakahara, T.
Tasaki, H. *See* Asano, S.
Tohda, C. *See* Andoh, T.
Tohda, C., Yamaguchi, T. and Kuraishi, Y.
Opioids and itch-associated response 77
Tomoi, M. *See* Yamamoto, Hiroko
Tsujimoto, S. *See* Inami, M.
Tsuneki, H. *See* Kimura, I.
Tsushima, H. and Fujimoto, S.
α-Adrenoceptors in the PVN of SHR 95
Tsushima, H., Mori, M. and Matsuda, Tomohiro
Antidiuresis of DAMGO in the SON 45

Ueda, M. *See* Taguchi, K.
Ueno, M., Sugita, T., Murakami, T. and Takata, I.
Effect of TA-383 on macrophage migration 221
Ujiie, A. *See* Nishiyama, M.

Watanabe, H. *See* Nanri, M.
Watanabe, K. *See* Hiroi, T.
Wu, C.-R. *See* Peng, W.-H.

Yamada, M. *See* Sakurai, K.
Yamaguchi, T. *See* Tohda, C.
Yamamoto, Hiroko, Takakura, S., Yamamoto, Tadashi, Satoh, H., Higaki, M., Tomoi, M. and Shimomura, K.
FR149175, a possible antidiabetic agent 109
Yamamoto, Hisao *See* Sakurai, K.
Yamamoto, J. *See* Nanri, M.
Yamamoto, Tadashi *See* Yamamoto, Hiroko
Yamamoto, Takaaki *See* Hiroi, T.
Yamano, M., Ito, Hiroyuki and Miyata, K.
5-HT-induced ileac contraction 267
Yamazaki, C. *See* Hori, Y.
Yasuda, N., Fujino, K., Shiraji, T., Nambu, F. and Kondo, K.
Effects of ONO-9302 on prostatic functions 243
Yatsugi, S. *See* Kawasaki-Yatsugi, S.
Yokotani, K., Murakami, Y., Okuma, Y. and Osumi, Y.
Central NO and sympathetic nerve 337
Yokoyama, T. *See* Suzuki, Mayumi
Yoshida, Y. and Imai, S.
Structure and function of IP_3 receptor 125
Yoshikawa, T. *See* Asano, S.
Yoshioka, T. *See* Iwamoto, N.

SUBJECT INDEX

Volume 74 • 1997

Acetylcholine 91, 139, 291
Acetylcholine release 155
α_1-Adrenoceptor 95
β_3-Adrenoceptor 109
Alveolar macrophage 21
Alzheimer disease 225
Alzheimer's therapy 139
Amiodarone 21
AMPA (α-amino-3-hydroxy-5-methyl-isoxazole-4-propionate) receptor 253
Angiogenesis 303
Antibody production 323
Antiepileptic effect 331
Antiparkinsonian drug 51
Anti-rheumatic drug 313
Anxiolytic 69
Aorta 113
Arthritis 221, 313
Astrocyte 1
Autoinhibition 155
Autoradiography 69

B cell 323
Benign prostatic hyperplasia 187
Berberine 261
Beta-amyloid 225
Bone metabolism 59

Ca^{2+} (intracellular) 165
Ca^{2+} channel 179, 291
Ca^{2+}-mobilization 125
Ca^{2+} signaling 1
Carbonaceous adsorbent 213
Cardiac function 171
Cationic amphiphilic drug 21
Cellular Na^+ 291
Chloride transport 165
Cholinesterase inhibitor 225
Cimetidine 281
Collagen-induced arthritis 221, 313
Competence 303
Cyclic AMP 37, 179
Cyclic GMP 179
Cytosolic Ca^{2+} level 195

Dalteparin sodium 59
Dark Agouti (DA) rat 313
Delayed neuronal death 253
Desensitization 291
Development 165
Dextran sulfate sodium 99
Dihydrotestosterone 243
Dilazep 147
Diltiazem 29
Distal ileum 267
DQ-2511 (ecabapide) 105

Ecabapide (DQ-2511) 105
Endothelial cell 37, 303
Endothelium 83
[D-Ala^2, *N*-Me-Phe^4, Gly^5-ol]-Enkephalin 45
Epristeride (ONO-9302) 243

FK143 (4-[3-[3-[bis(4-isobutylphenyl)methylamino]benzoyl]-1*H*-indol-1-yl]-butyric acid) 187
Flow cytometry 303
FR149175 (ethyl-[(*S*)-8-[(*R*)-2-(3-chlorophenyl)-2-hydroxyethylamino]-6,7,8,9-tetrahydro-5*H*-benzocyclohepten-2-yloxy]-acetate monohydrochloride monohydrate) 109
Fructose 297

Gamma amino butyric acid (GABA) 165
Gastric acid secretion 337
Gastric vagal afferent 105
Global cerebral ischemia 253
GTP level 323
GTS-21 (3-(2,4-dimethoxybenzylidene)-anabaseine dihydrochloride) 285

H^+-ATPase 21
5-HT receptor 267
5-HT_3 receptor 209
5-HT_4 receptor 209
5-HT_{1A}-receptor agonist 69
Heart (rat) 147
Heparin 59
Hippocampus 281
Histamine H_1-receptor mRNA 121
Histamine release 217
20-Hydroxyecdysone 331
Hyperinsulinemia 297
Hypertension 297

Ileal myenteric plexus (guinea pig) 155
Ileum (guinea pig) 91, 291
[^{3}H]Iloprost binding site 37
Inflammatory bowel disease 213
Inhibitor 1
Inositol 1,4,5-trisphosphate (IP_3) 125
Inositol 1,4,5-trisphosphate (IP_3) receptor 125
Insulin release 203
Insulin resistance 297
Intracellular calcium 165
Intracisternal injection 77
Ischemic edema 117
Itch 77

Lavendustin A 203
Lecithinized-superoxide dismutase 99
Long-chain acylcarnitine 147
Long-term potentiation 281
Longitudinal muscle 267
Losartan 83

Macrophage migration enhancement activity 221
Manganese-hyaluronate conjugate 117
Mecamylamine 139
Mesenteric artery (canine) 275
Mesenteric artery (rat) 179
Microdialysis 139
Mizoribine 323
MKC-242 (5-{3-[((2*S*)-1,4-benzodioxan-2-ylmethyl)amino]propoxy}-1,3-benzodioxole) 69
Morphine 217
MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine) 51
Myenteric plexus 155
Myocardial infarction 171
Myosin phosphorylation 195

N^G-nitro-L-arginine 275
Na^+ (cellular) 291
Na^+ channel 147
Na^+-Ca^{2+} exchanger 1
Neuronal cell loss 285
Neuronal death 253
Neuroprotective effect 51
Nicardipine 29
Nicotinic agonist 139, 285
Nifedipine 29
Nipradilol 171
Nitric oxide (NO) 83, 113, 213, 275, 337
Nitric oxide-cGMP cascade 105
Non-insulin-dependent diabetes mellitus (NIDDM) 109

ONO-9302 (epristeride; (−)-17β-(*tert*-butylcarbamoyl)androsta-3,5-diene-3-carboxylic acid) 243
Opioid 77
μ-Opioid receptor 45, 77
Osteopenia 59

Pancreatic β-cell 203
Paraventricular nucleus 95
Passive avoidance 261
Patch-clamp 179
Peristalsis 91
Phorbol ester 195
Phospholipase A_2 155
Phospholipase C 125
Pioglitazone 297
Platelet 37
Platelet-derived growth factor 303
Polymerase chain reaction (PCR) 121
Pramipexole 51
Primary sensory neuron 121
Prostate 243
Protein kinase C 155, 195
Pulmonary toxicity 21

Radiographic contrast media 217
Reactive oxygen species 117

5α-Reductase 187, 243
Remodeling 171
Renal hemodynamics 29
Renal hypertensive rat 83
Renin angiotensin system 83
RS67506 (1-(4-amino-5-chloro-2-methoxy-phenyl)-3-[1-(2-methyl sulphonylamino)-ethyl-4-piperidinyl]-1-propanone hydrochloride) 209
Ryanodine receptor 125

Scopolamine 261
Scratching 77
Sensory neuron 121
Sexual cycle 113
Single whole-cell polymerase chain reaction 121
SM-10906 ((+)-methyl [2-[(2*R*,3a*S*,4*R*,5*R*,6a*S*)-octahydro-5-hydroxy-4-[(*E*)-(3*S*, 5*S*)-3-hydroxy-5-methyl-1-nonenyl]-2-pentalenyl]-ethoxy]acetate) 37
Species difference 267
Spontaneously epileptic rat (SER) 331
Steroid 5α-reductase 187, 243
Striatal neuron 165
Superoxide dismutase 99
Supraoptic nucleus 45
Sympathetic nervous system 337

TA-383 (*cis*-2-(4-chlorophenyl)-4,5-diphenyl-2-imidazoline hydrochloride) 221
Talipexole 51
Testosterone 243
Tetrodotoxin 147
α-Toxin 195
Tracheal smooth muscle 195
Transporter 1
Tyrosine kinase 203
Tyrosine kinase inhibitor 203

Ulcerative colitis 99
Urate excretion 29
Urine production 45

Vasopressin 45, 95
Ventricular diastolic volume 171